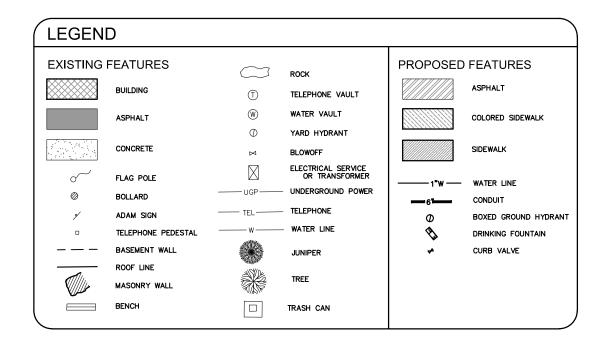
UPPER VISITORS CENTER WATER SYSTEM UPGRADES AT LEWIS AND CLARK CAVERNS STATE PARK

NEAR CARDWELL, MONTANA

SHEET INDEX	
TITLE SHEET	T1
SITE PLAN	C1
WATER LINE PLAN & PROFILES	C2
WATER LINE PLAN & PROFILES	C3
DETAILS	C4
DETAILS	C5



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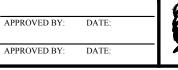






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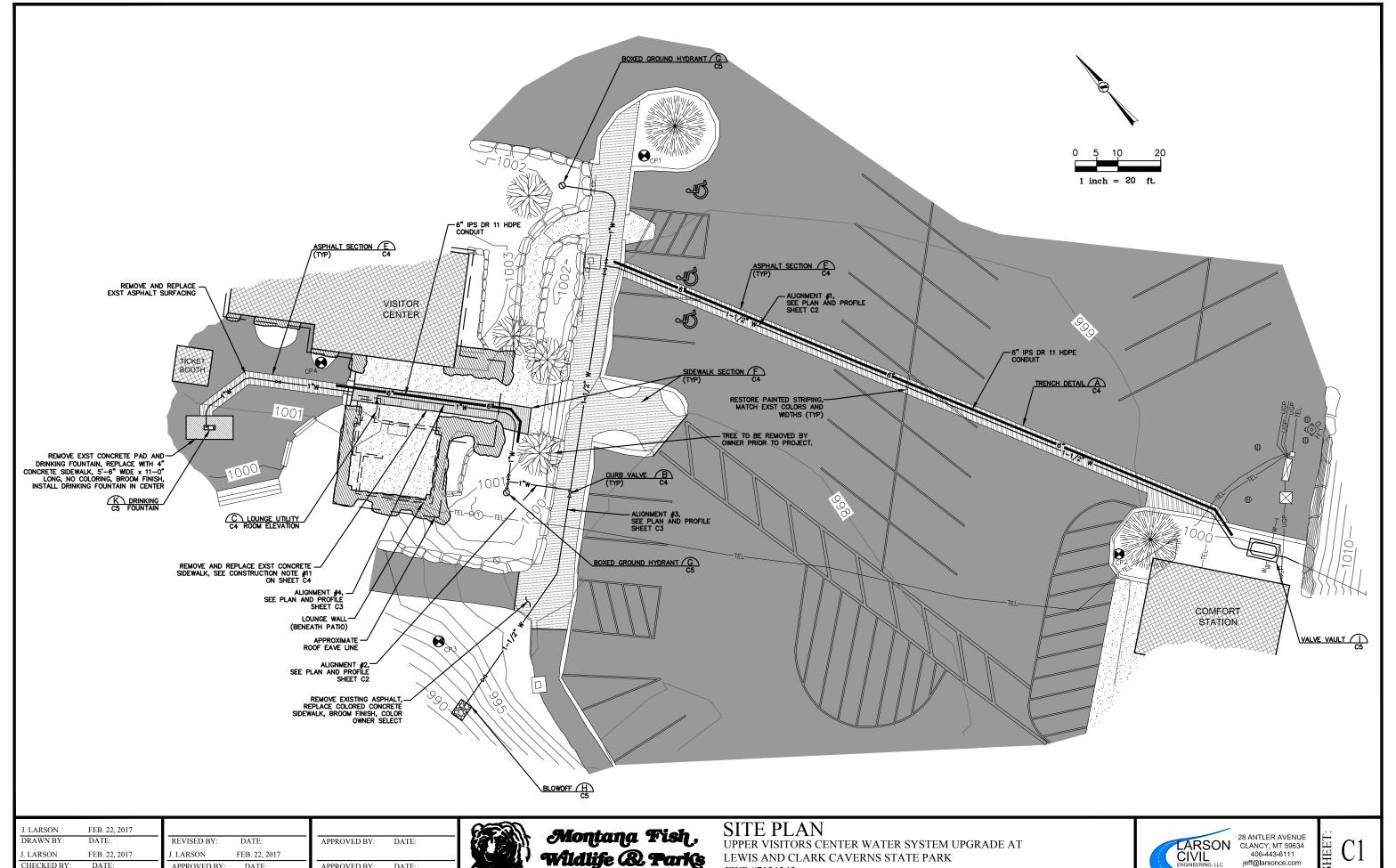
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TITLE SHEET UPPER VISITORS CENTER WATER SYSTEM UPGRADE AT LEWIS AND CLARK CAVERNS STATE PARK FWP #7136343





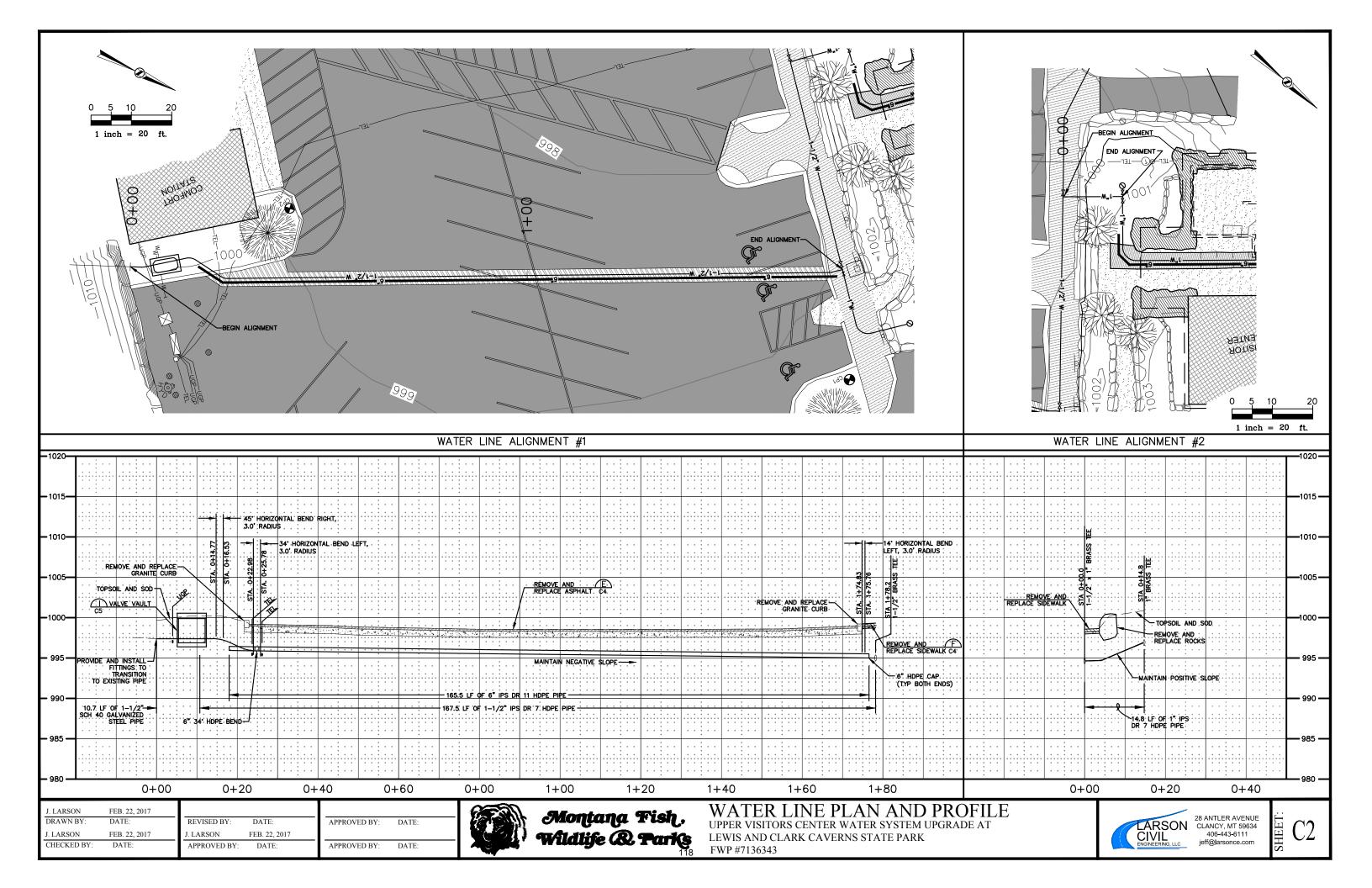
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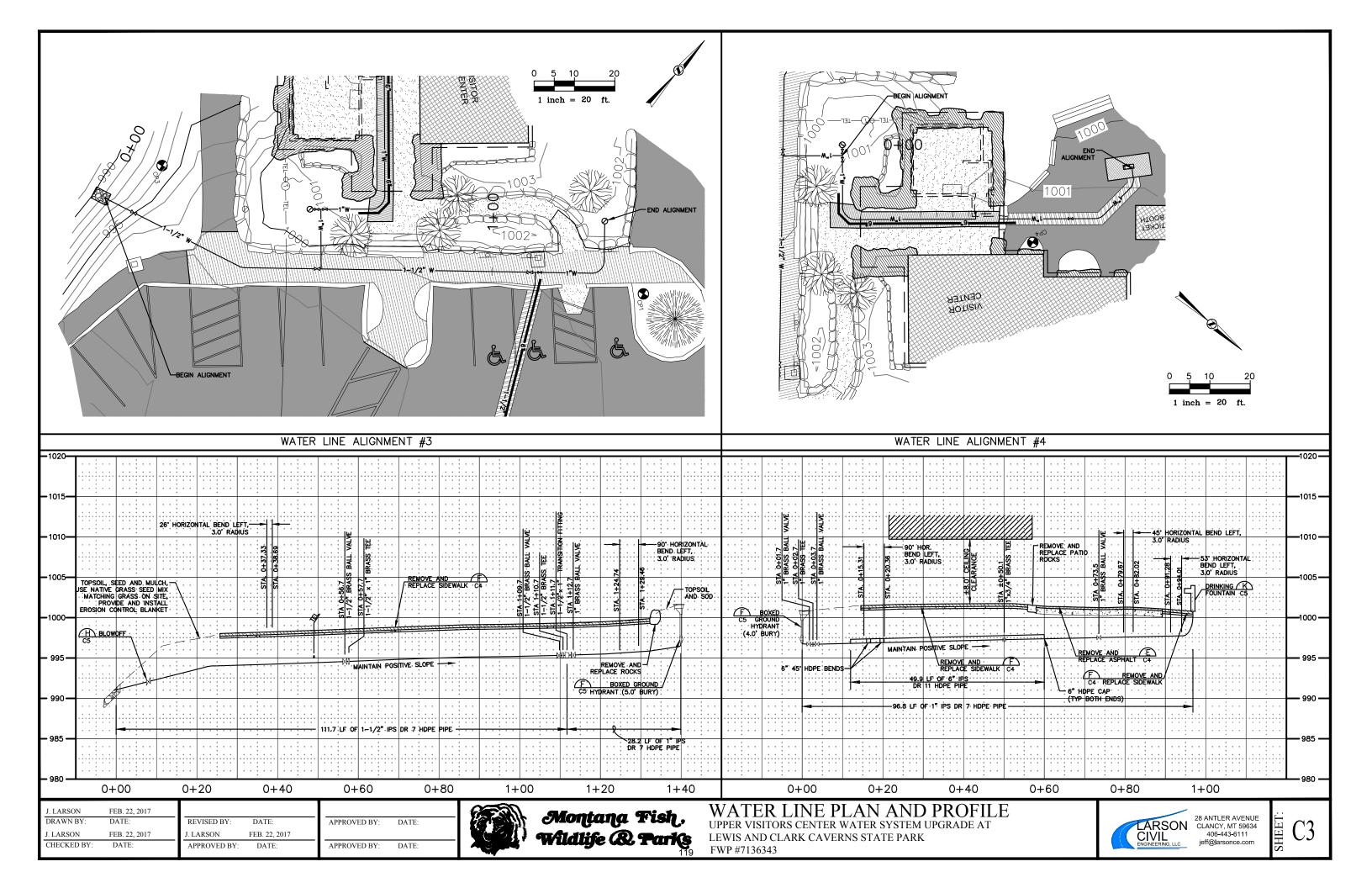
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LEWIS AND CLARK CAVERNS STATE PARK FWP #7136343





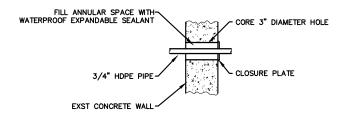


CONSTRUCTION NOTES:

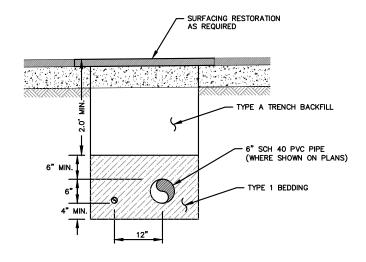
- 1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS", SIXTH EDITION (MPW).
- 2. WATER LINES TO BE BURIED WITH 3'-0" MINIMUM COVER BELOW FINISHED
- 3. BURIED WATER LINES SHALL BE IPS DR 7 HDPE PIPE OF THE SIZE INDICATED IN THE DRAWINGS, UNLESS OTHERWISE LABELED.
- 4. BEFORE DIGGING, CALL 811 TO LOCATE EXISTING UTILITIES.
- 5. COMPACTION OF TRENCH BACKFILL SHALL BE TO 95% OF ASTM D698.
- 6. VERIFY THE DIAMETER AND MATERIAL OF EXISTING PIPING AT ALL CONNECTION POINTS PRIOR TO ORDERING FITTINGS AND COUPLINGS.
- 7. DETECTABLE WARNING TAPE SHALL BE INSTALLED CENTERED OVER ALL WATER LINES AT A DEPTH OF 18" BELOW FINISHED SURFACE.
- 8. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. DEPTHS AND LOCATIONS ARE ESTIMATED. PRIVATE UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER.
- 9. MATERIALS TESTING SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL INCLUDE 1 COMPACTION TEST PER 200-FEET OF EACH 12" LIFT OF TRENCH BACKFILL AND 1 TEST PER 100-FEET OF CRUSHED BASE COURSE INSTALLED.
- 10. ALL NEW WATER LINES SHALL BE PRESSURE TESTED AS REQUIRED IN THE PLUMBING SPECIFICATION PRIOR TO INSTALL ASPHALT OR CONCRETE SIDEWALK.
- 11. SIDEWALK IN THE PLAZA AREA HAS HISTORIC VALUE AND SHALL BE REMOVED AND
- REPLACED IN COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.

 EXISTING CONCRETE SHALL BE PROTECTED BY TAPING AND PROTECTIVE COVERING.
 - SOIL MAY NOT BE PLACED ON UNPROTECTED EXISTING CONCRETE.
 - SAW CUTS SHALL BE ALONG EXISTING JOINTS.
 - CONCRETE SHALL BE FINISHED TO MATCH EXISTING TROWEL FINISH.
 CONTROL JOINT PATTERN SHALL MATCH EXISTING LAYOUT AND LOCATIONS.

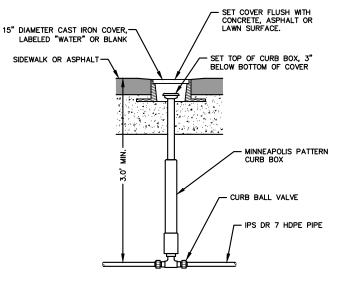
 - TO THE EXTENT POSSIBLE NEW CONCRETE SHALL BE PLACED TO MATCH EXISTING CONCRETE IN APPEARANCE AND TEXTURE.
- 12. ADDITIONAL COMPENSATION FOR ROCK EXCAVATION WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- DISTURBED GROUND SURFACES SHALL BE RECLAIMED WITH A MINIMUM OF 4" OF 13. TOPSOIL, FOR BOTH SODDING AND SEEDING RECLAMATION. IMPORT ADDITIONAL TOPSOIL AS NECESSARY TO SUPPLEMENT THE TOPSOIL SALVAGED ON SITE.
- GRANITE CURB MAY HAVE HISTORIC VALUE AND SHALL BE CAREFULLY REMOVED 14. WITHOUT DAMAGING THE CURB AND REPLACED IN THE SAME LOCATION AND ORFINITATION



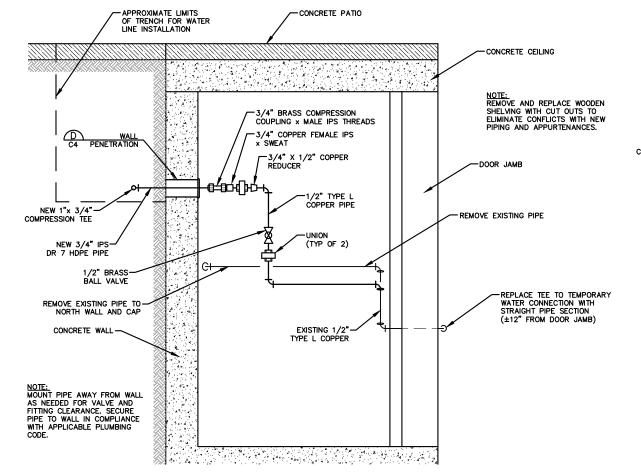


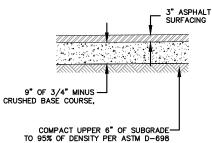


TRENCH DETAIL (A)

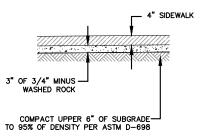


CURB VALVE DETAIL B





ASPHALT SECTION



SIDEWALK SECTION

LOUNGE UTILITY ROOM ELEVATION (C)

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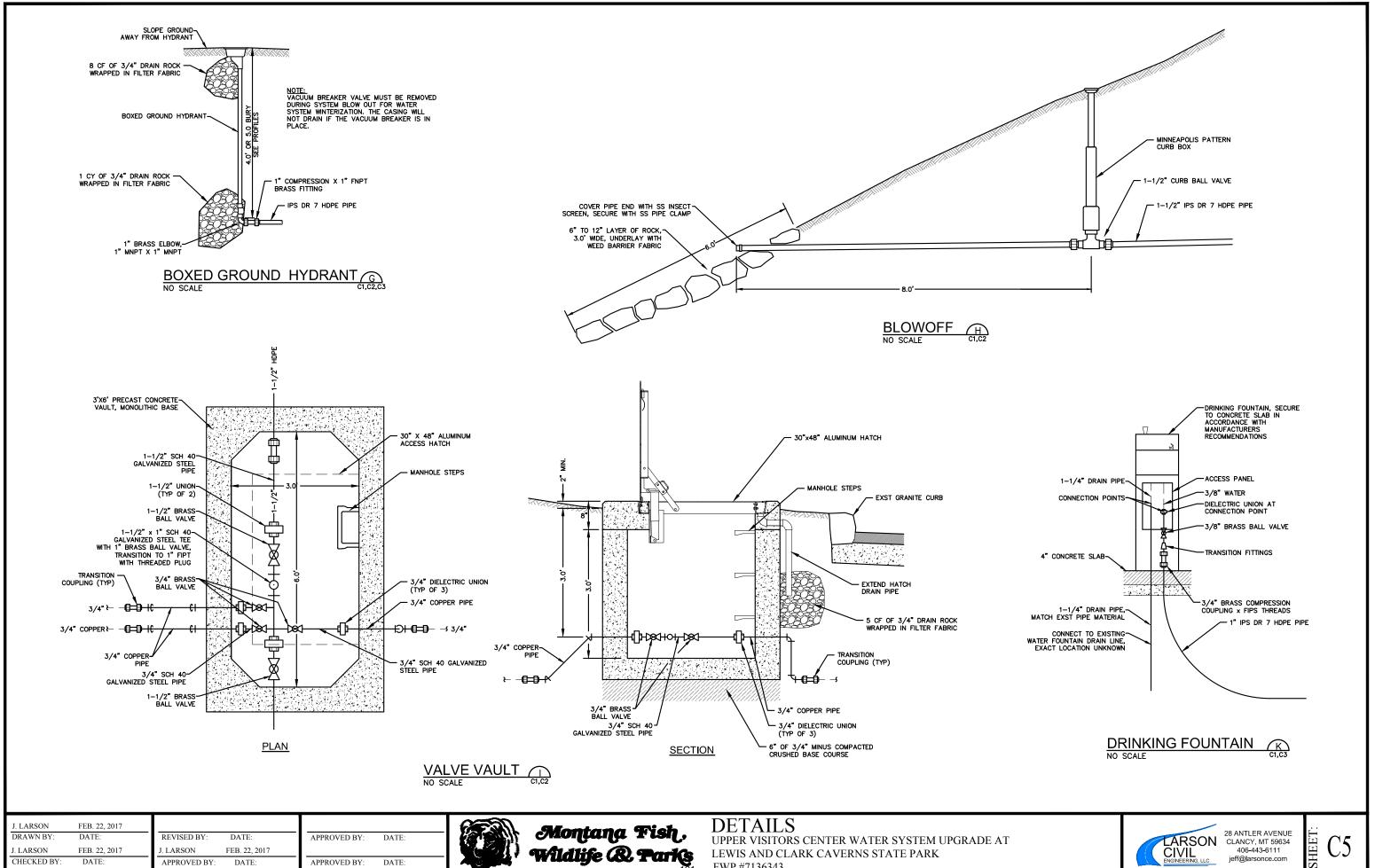
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Montana Fish, Wildlife & Parks **DETAILS**

UPPER VISITORS CENTER WATER SYSTEM UPGRADE AT LEWIS AND CLARK CAVERNS STATE PARK FWP #7136343



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FWP #7136343

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